AVerMedia®
IWH3216 Touch
Quick Installation Guide

NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.

INFORMATION

For more information, please refer to the user manual in the software CD.

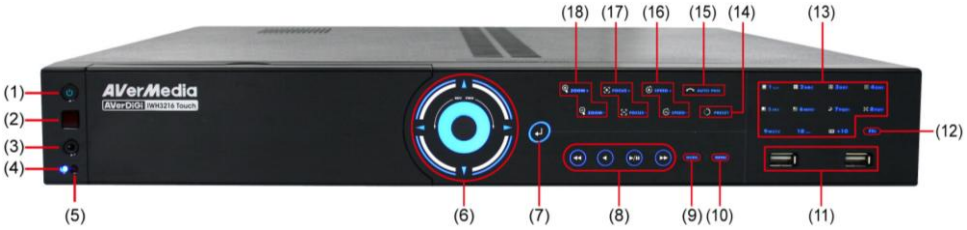
I. Package Contents

- ☐ IWH3216 Touch unit
- ☐ AVerMedia optical USB mouse
- ☐ Software CD (Manual and Quick Guide are included)
- ☐ Power Cord (*The power cord may vary according to the local electricity system.)
- ☐ Power Adaptor
- ☐ Audio in cable(2 Spot monitor cables are included)
- ☐ Video in cable(16channels)
- ☐ SATA cable for hard disk installation
- ☐ Recovery CD

If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer

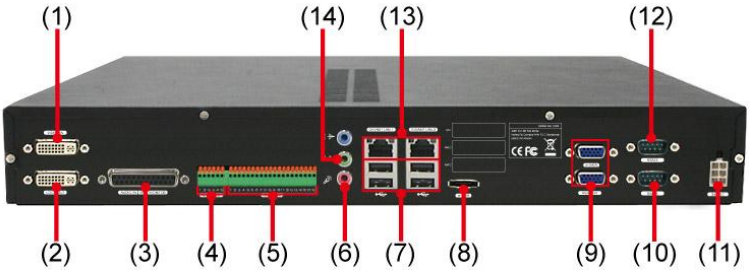
II. Hardware Introduction

Front Panel



(1) System indicator
(2) IR Sensor port
(3) IR Sensor
(4) Power indicator
(5) HDD indicator
(6) Up, down, left, right, next frame, and previous frame
(7) Confirm button
(8) Playback control buttons
(9) Mode switch button
(10) Setup menu
(11) USB 2.0 port
(12) Multiple function button
(13) Number buttons
(14) Preset position
(15) Auto Pan
(16) Speed + & Speed -
(17) Focus + & Focus -
(18) Zoom + & Zoom -

Back Panel



(1) Video Loop Out(16CH)
(2) Video In
(3) Audio In & Spot Monitor
(4) Relay Out
(5) Sensor In
(6) MIC In
(7) USB port
(8) eSATA interface
(9) VGA Out
(10) RS485
(11) Power Plug
(12) RS232 port
(13) LAN Port
(14) Speaker

III. Hardware Installation

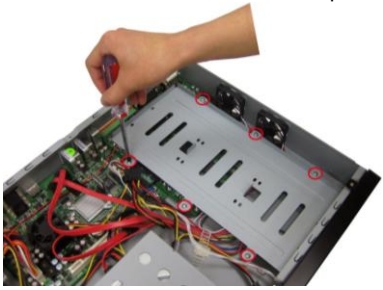
Install the Hard Disk

The DVR unit can support up to 3 hard disks. Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws (2 sides and back) and Push the cover backward and lift to open the case cover.

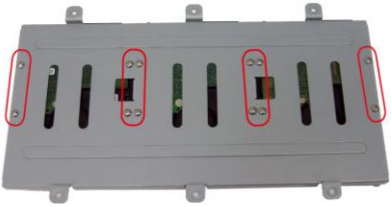
2. Loosen the screws of holder to make hard disk install more easily.

3. Loosen all the screws of hard disk plate.



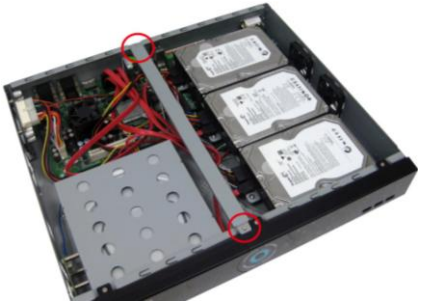
4. The hard disk plate can be installed 3 hard disks. User can choose the position and place the hard disk on it.

5. Turn the plate and hard disk over carefully and secure the hard disk on the plate. If hard disk cannot be fit to the screw hole, then, you may adjust the hard disk position to fit the screw hole.



6. Screw the plate within hard disk inside the DVR unit.

7. Screw the holder.

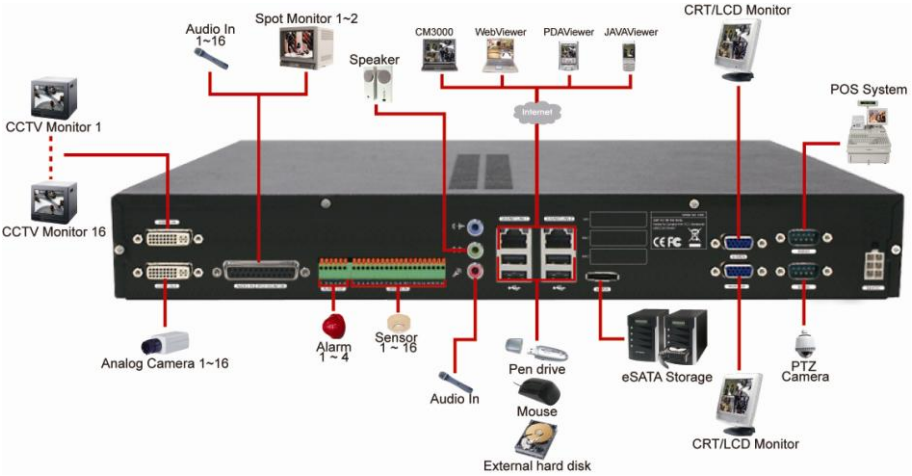


8. Push the cover forward and secure the cover.

9. User may now connect all the cables and power on the DVR unit.

Connecting Devices

The back panel of the DVR unit, user can connect up to 16 cameras of analog camera. The DVR unit also can connect 16 sensor devices, 4 alarm devices, and output video to 2 CRT/LCD monitor. Follow the illustration below to make the connection:



For backup recorded video, plugging the pen drive or external hard disk through USB port, and then, use the bundled software enables user to transfer, playback and segment the video.

IV. Operating the DVR System

Running the Unit for the First Time

When the unit is turned on for the first time, the system will prompt you to enter the CD-Key. After enter the CD-Key, the DVR will enter Preview Mode interface.

To Connect the Camera

Before to monitor, user needs to connect the camera to get the live video. Please follow the below steps to connect the camera.

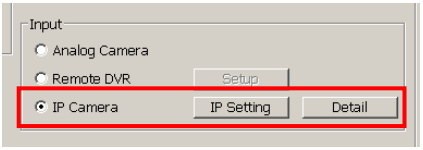
Analog Camera

Plug the video cable into video connector of DVR unit. The video will display on the channel that camera is connected.

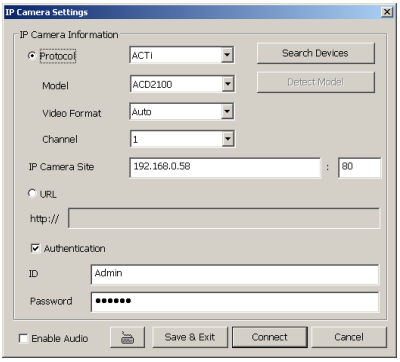
IP Camera

1. In Preview mode, click **Setup** button( ) and select **Camera**.
2. In Camera setting window, select the channel that camera will be connected.

3. And then, select the **IP Camera** as **Input**.



4. The IP camera detail window will show up. Select the way to connect the IP camera – **Protocol** or **URL**. And then, enter or select all required data. Using **Search Devices** button can help user to find all available IP cameras on your local network. If camera require authentication for accessing, mark **Authentication** check box and enter the **ID** and **Password** of IP camera.
5. After enter all required data, click **Connect** to make a connection with IP camera.



6. After connection successful, the video of camera should be display on the channel that camera is connected.

Recording the Live Video

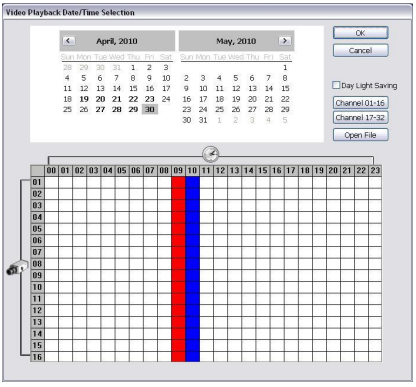
While monitoring, user can click **Record** ( ) button to save the live video on hard disk and recorded video can playback in local site and remote site.

Preview mode

Playback Recorded Video

1. Clicking **Playback** button.

2. Select the date and time to playback. The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

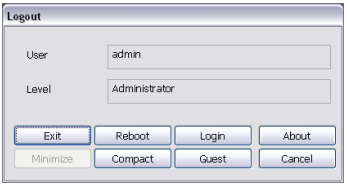


3. After selected the date and time, click **OK** to start playback. User will see the selected video file playback on the screen.

Playback Mode

Function buttons in Preview Mode

Name	Function
(1) Exit	Call up the Logout dialog box. In the logout dialog box, you may do the following:



Name	Function
(1) Exit	- **Exit:** To close the DVR program. - **Login:** To sign-in in different account. Default user ID is **admin** and password is **admin**. - **Compact:** To switch to compact mode - **Guest:** To switch to the guest mode. In guest mode, the functions are limited to preview and playback function only. For complete functions of DVR, please login as an administrator. - **Cancel:** To exit Logout dialog box - **About:** To update patch or find about the software info.
(2) Split Screen Mode	It provides 6 kinds of split display modes for your selection. You can select one of the split display modes by clicking the icon.

- If there are only 4 cameras, you won't be able to switch to 9, 13 and, 16 split screen mode.
- The DVR system will save the current operating mode (split screen mode, auto scan, full screen, and compact mode status) when shutdown DVR application and apply the mode for next login.
- When you are in single screen mode, **Right click** and **Drag** a square on the area you want to enlarge.
- When you are in multiple-screen mode, **Right click** the video screen of the camera and **Drag** on where you want to relocate it. To only display one of the video in the multiple-screen mode, **Left click** on the video screen you only want to display.

(3) Status Bar	It shows the current time, system temperature, and the hard disk's free space.
(4) Record	To start recording. The button turns violet when it is recording. Click it again and enter the password to stop.
(5) E-Map	To load up to 8 desired E-Maps in BMP or JPG image format, and locate cameras, sensors, and relays to desired positions.
(6) Network	To allow inbound connections. When this function is enabled, the button turns violet. Click it again to disable all inbound connections.
(7) Setup	When setting up the system for the first time, type the word "**admin**" in the Password text box to access. Click **Setup** (Setup) button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.
(8) PTZ	To call out a PTZ setup dialog to configure an appointed PTZ camera.
(9) Preview	Switch to Preview/Advanced mode. This allows you to view live camera display. Press **ctrl + F** can freeze the live preview video screen. And then, click **Snapshot** can save the freeze video screen.

Name	Function
(10) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(11) Camera Group Tree	To view the user defined channel group tree. Click **+** of group to extend group and drag the camera to surveillance screen to view. Click **+** of camera to view the camera information.
(12) Camera ID	Click a desired icon to play the desired channel. After you click the icon, it turns yellow. If you assign a split display mode and appoint a camera number, the icon group of the cameras will turn yellow altogether.
(13) iPOSLive	To view the real time iPOS data of channels. Click the iPOSLive to call out the real time iPOS data windows. User can move the each channel of iPOS windows apart to proper position. If user didn't enable the multi-channel of iPOSLive, and then, user only can view one channel each time.

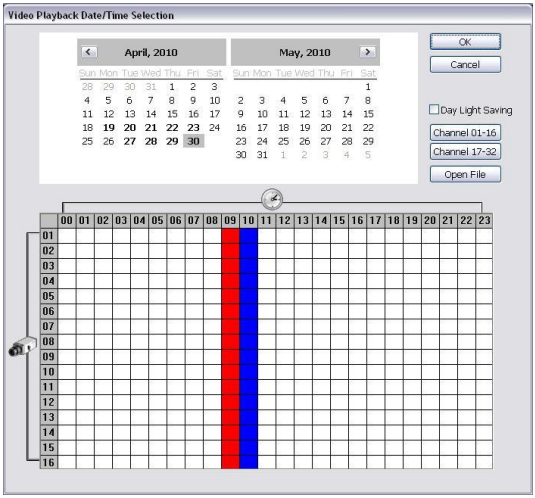
Name	Function
(13) iPOSLive	To switch to different channel, click **Select Camera** drop down list to select the channel. To tempore stop iPOS data coming, click **Freeze**. To un-freeze, click **Transcation**.
(14) Snapshot	Catch a static recording image and save it as a BMP or a JPG file.
(15) Event log	Click it to pop-up the Event Log Viewer dialog to check Event, Operation, POS (Point of Sales), System and Network logs. You can select a desired date and a log item to show all logs data in the table.
(16) AutoScan	Click it to start Auto Scan.
(17) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(18) Alarm	Click **Alarm status** ( ) button to view the status or advanced alarm information.

Name	Function
(19) Live Playback button	Click to playback the recorded file instantly in preview mode. When the channel is in live playback mode, the icon is . Move the mouse to the bottom of the live playback channel, the playback tool bar ( ) will show up. Using the playback tool bar to control the playback. Total 4 channels can be live playback at the same time.
(20) Volume	Adjust the audio volume of channel to a proper volume.
(21) On Screen Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.

Function Buttons in Playback Mode

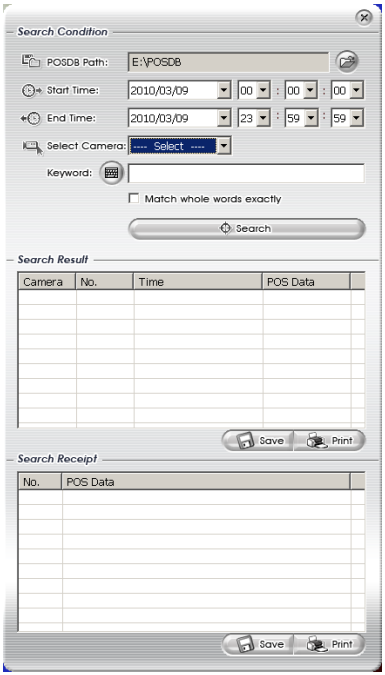
To switch in Playback mode, click **Playback** button at the lower right corner of Advanced/Preview mode user interface

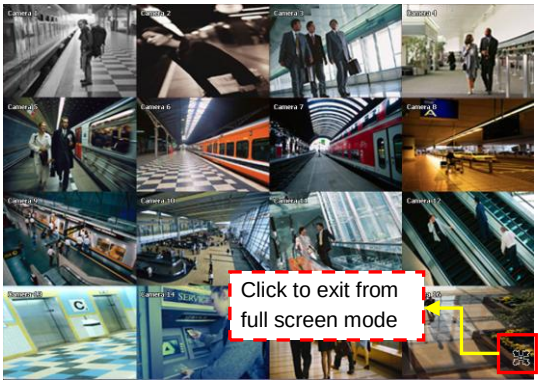
Name	Function
(1) Split Screen Mode	Select from 6 kinds of split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
ⓘ	If there are only 4 cameras, you won't be able to switch to 9, 13, and 16 split screen mode. To zoom in an area on the screen, **Right** click and **Drag** a square on the area you want to enlarge.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
ⓘ	The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.
(4) Playback Control Buttons	**Begin:** Move at the beginning of the recorded video file. **Previous**: Go back to the previous frame. **Slower**: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x, 1/16x, or 1/32x. **Rewind**: Wind back the recorded video file. **Pause**: Briefly stop playing the recorded video file. **Play**: Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x.

Name	Function
(4) Playback Control Buttons	**Next**: Go to the next frame. **End:** Go to the end of the recorded video file.
(5) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. − **OPEN FILE:** user can open the recorded file from HDD − **Channel 01~ 16**&**Channel 17 ~ 32:** Switch to different channel group of playback calendar. If DVR system supports less than 16 channels (include 16 channels), the channel group switching button is non-functional. − **Day Light Saving:** the playback calendar will show the available video records during day light saving time period. 

The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(6) Preview	Switch to preview mode.
(7) Playback	Switch to playback mode.
(8) Status bar	Display the recorded date, time and play speed.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.

Name	Function
(10) iPOS Serach	To find iPOS event by keyword or period. ■ **POSDB Path:** where the iPOS data located. ■ **Start Time:** select the search start time and date ■ **End Time:** select the search end time and date ■ **Select Camera:** select the camera for iPOS events search ■ **Keyword:** enter a keyword to search iPOS event. Mark **Match whole words exactly** to 100% match the keyword that user has entered. The search result will display in Search Result windows. User can click specific iPOS event to view and the iPOS detail will display in Search Receipt. To save the search result, click **Save** button. Click **Print** button to print the search result. To save the selected iPOS search receipt, click **Save**. Click **Print** to print the selected iPOS event's detail. 
(11) Export	Export includes Snapshot, Print, Output Video Clip, and Backup function. ■ **Snapshot:** Capture and save the screen shot either in *.jpg or *.bmp format. ■ **Print:** Print the screen shot. ■ **Output Video Clip:** Save the segmented file in *.mpg, *.avi, or *.dvr format. ■ **Backup:** Save the playback file to USB device or DVD-ROM disk.

Name	Function
(12) Segment	Keep a portion of the recorded video. 1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark. 2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again. 3. Click **Export** → **Output Video Clip** button to save the wanted clip. 4. In the Save As dialog box, locate on where you want to save the file or choose to **Burn** the video segment to CD/DVD ROM (only for .*mpeg file format). 5. Select the file type and select the camera information display position when playback. The camera information will be the information of server name that user has defined in Network Setting. 6. If the select the file type is *.avi, user can mark **Included audio** to include audio in output video segment. 7. To adjust **Video Quality** if needed. 8. Click **Save** to save the video segment.
(13) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon.  When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(14) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(15) Bookmark	Mark a reference point when previewing the recorded video file to which you may return for later reference. You may also set it to protect the file.
(16) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second.

Name	Function
(17) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(18) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion , Video Loss, POS) .
(19) Intelligent Search	Search the changes in the motion detector frame.
(20) Audio	Enable/disable audio sound.
(21) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.
(22) Watermark	To verify the playback video has not been modified.